



Update #2

Draft Agenda Update

Notice #3

This government-wide event is focused on improvement of adversarial-based assessments including variants such as red teaming, blue teaming, vulnerability assessment, risk assessment, etc., as applied for issues analysis and across the lifecycle of systems from concept, R&D, prototype, deployment, and operation, through consideration of physical, cyber, CBRNE, and other threats. Therefore, the words "red team" are used in a general context for this event.

Dual themes, "Strategic to Tactical" and "Theory to Practice," will be represented as cross cutting concepts in this conference. Red teaming has applied for strategic reasons that give long-term benefits to a system; however, we've seen an increased introduction of red teaming into both tactical military operations and situation analysis that we also wish to highlight at this event. We also wish to maintain a balance between the near-term issues of practicing red teaming today with the more theoretical work being done to improve that state of practice.

This conference is a forum for sharing and discussion about current events, process, tools, lessons learned training, and certifications for this field and how red teaming can be applied to solve a range of current program and analysis issues. Please make sure to see notice #1 for more general information about this event, including logistics and registration.

What's happening at REDTEAM2006?

We have confirmed two conference keynotes, Dr. Steve Lukasik and Ed Badolato. Both Steve and Ed are strong advocates of red teaming, and we believe the conference will benefit greatly from their experience and insight.

Dr. Steve Lukasik

From 1967–1974 Steve served as Deputy Director and then Director of the Department of Defense Advanced Research Projects Agency (ARPA). Later he served as Chief Scientist of the Federal Communications Commission. He has held senior positions at Xerox, RAND, Northrop, and TRW, and is the author of numerous papers and reports dealing with national strategies for cyber defense and for international approaches to the protection of information systems against cyber crime.

Colonel Ed Badolato (USMC, Ret.)

Ed is President and CEO of Integrated Infrastructure Analytics, Inc. (IIA), a leading provider of specialized power, water, and homeland security products and support services. He served under Presidents Reagan and Bush as a Deputy Assistant Secretary at the Department of Energy (1985-1989) where he was the principal director of security, energy contingency planning, and international energy security activities. He is currently heavily involved in post-9/11 security assessments of US critical infrastructure, homeland security matters, weapons of mass destruction, and security programs with major chemical, energy, transportation, and industrial process companies to prevent terrorist attacks.

Invited Speakers

We also have three invited speakers on the agenda: Jeff Cares of Alidade Incorporated, MAJ Stan Richister of the Air National Guard, and Chuck de Caro of SAGE Corporation. Jeff was recently honored by Harvard Business Review for having one of the top 20 "breakthrough ideas" of 2006. Jeff will discuss his idea and explain how it illuminates the complexities inherent in RED/BLUE competition. We are also very pleased to have on the agenda MAJ Richister, who--by all accounts--delivers a unique and fascinating presentation on social engineering. Finally, Chuck de Caro, former CNN special assignments correspondent, will be discussing his notion of "SoftWar," the hostile use of global television, and presenting an extended tutorial on the topic.

Organizations and Topics

Our list of regular speakers scheduled includes presenters from a range of organizations: DIA, CIA, DHS, NSA Red Team, NRO, JIOC, DoS, AFRL, MITRE, CERT/CC, U.S. Army 1st IO Command, NCTC, NGIC, the Naval Postgraduate School, U.S. Navy Medical Research Center, AF Space CHOP, Adventium Labs, Washington Safety Management Solutions, Akamai, SRA International, BTAS Inc., and Sandia Labs. These groups will be presenting the following working topics/titles, among others:

- The Art and Science of Red Teaming
- Trends for Assessment Teams
- Determining System Effectiveness through Adversary Modeling
- Tactical Wireless Network Assessment
- Optimization Tools

- The Army's Red Team Leader Training
- Extreme Asymmetries: How Networks Fight Networks
- Real-time Computer Network Security Testing
- Automated Assessment Tools
- Red Teaming Pitfalls
- Lessons from Reverse Engineering Malware
- Tool Assurance
- Red Team Exercise Support to the Customer
- Integration of Red Teaming into Blue Team Vulnerability Assessments
- Integrated, All-Source Intelligence Support
- Adversary-Defender Modeling Grammar for Vulnerability Analysis
- Red Teaming an Enterprise Security Service
- Internet Intelligence for Information Operations
- Full-Spectrum Red Teaming
- Real-World Malicious Code Analysis
- Red Teaming in Combat Environments
- Modeling Terrorist Selection of Attack Scenarios
- Recent Trends in Information Operations Red Teaming
- Social Engineering
- Wireless Challenges and Opportunities
- Defensive Information Operations Red Team Results
- Electric Grid Assessment
- "SoftWar" – Hostile use of global television
- Red Team Cookbook
- Optimizing Attack and Defense of Critical Infrastructure
- Extreme red teaming – Replicating sophisticated threat

Remember that one of our goals is to have ample time during the conference for interaction with others. We will have breaks, long lunch periods, a social, and optional activities from which you can defer in order to meet with others working the domain of red teaming.

Our conference theme "Strategic to Tactical; Theory to Practice," is intended to provide inspiration to all talks. We've identified tracks and sub tracks so far in the following areas:

- (1) IO red teaming;
- (2) Non-IO red teaming;
- (3) Adversary modeling;
- (4) Intel for red teaming;
- (5) Tools for red teaming; and
- (6) Methods, training, and theory.

As with last year, we will include optional tours of facilities and programs here at Sandia so as to better help you digest lunch. Right now we have confirmed a tour of our directed energy program.

On a lighter note, we invite all organizations who would like to participate in a red team logo contest to send us a copy their organizational logos. We will open the voting to attendees and announce the winner at the conference. Please send a graphic file of your logo with explanation to redteam2006@sandia.gov, with title "logo contest."

Logistics

As always, feel free to contact us with questions and comments. The redteam2006@sandia.gov reaches all three of us. Our specific emails are as follows:

- Amy Bowen, Conference Registration/Logistics: adbowen@sandia.gov
- Mark Mateski, Technical Committee Chair (speakers and tracks): memates@sandia.gov
- Michael Skroch (skraw), Conference Director and Host: mjskroc@sandia.gov

Exhibit space

Limited exhibit space is available to provide attendees with additional information about capability, tools, and other information about red team programs. This space is not intended for commercial sales or third-party tool vendors. Cost for exhibit display space including 10-foot display unit backdrop and table is \$400. Table only will be less. Specific details of exhibit space and equipment must be negotiated with the conference coordinator.

Registering for the event

Please see notices #1 and #2 on our web site for additional information about registering for this event. Clearance and U.S. Citizenship is required. The fee is \$400, with a \$50 discount for speakers accepted for the event. Additional cost applies for exhibit space. Our fees are limited to cost recovery for this event.

Access to KAFB is controlled. Information about access to the base will be provided upon registration. It is anticipated that attendees may want rental cars; however, the conference will provide bus service between hotels and the conference. Check web site for more information.

More information

Register for email notification by sending a message to "redteam2006@sandia.gov." Additional updated information will be provided at "www.sandia.gov/redteam2006/".

Conference Agenda

The following tables provide an outline of the conference agenda, including the presentation tracks and abbreviated presentation titles.

Day 1		
Keynote speaker: "The Art and Science of Red Teaming"		
"Attack Trends for DoD Assessment Teams"	"Threat Briefing"	"System Effectiveness and Adversary Modeling"
"Wireless Network Assessment"	"Universal Adversary"	"Program Update"
Lunch		
"Review of Major Vulnerability Assessment Program"	"Optimization Tool"	"Red Team Leader Training"
Invited Speaker: "How Networks Fight Networks"	(Optional speaker)	(Optional speaker)
"Real-Time Network Security Testing"	"Automated Assessment Tool"	"Red Teaming Pitfalls"
Title pending	"Tool Assurance"	"Red Team Exercise Support"
Wrap-up discussion		
Evening social		

Day 2		
Keynote speaker: Title pending		
"Red Teaming and Vulnerability Assessments"	"Intelligence Support to Red Teaming"	"Adversary-Defender Modeling Grammar"
"Red Teaming Security"	"Internet Intelligence for Information Operations"	"Cognitive Architecture for Red Teaming and Training"
Lunch	Lunch speaker: "Wireless Challenges and Opportunities"	
"Full-Spectrum Red Teaming" (I)	"Malicious Code"	"Lessons from Reverse Engineering Malware"
Invited Speaker: "Red Teaming in Combat Environments"	(Optional speaker)	(Optional speaker)
Title pending	"Report on Red Teaming Activity"	"Modeling Terrorist Selection of Attack Scenarios"
"Recent Trends in IO Red Teaming"	Title pending	"Red Team Cookbook"
Wrap-up discussion		

Day 3:		
Invited speaker: "Social Engineering"		
"Full-Spectrum Red Teaming" (II)	"SoftWar"	Title pending
"Defensive IO Red Teaming"		"Critical Infrastructure Vulnerability Assessments"
Lunch		
"Vulnerability Assessment Methodology Tutorial"	"SoftWar" discussions	Tours
Wrap-up discussion		

Tracks:

IO Red Teaming
Non-IO Red Teaming
Adversary Modeling
Intel for Red Teaming
Tools for Red Teaming
Methods, training, theory
Tours